

4 EP00000 / EPO

PN - JP2003086354 A 20030320
 PD - 2003-03-20
 PR - JP20010275440 20010911
 OPD - 2001-09-11
 TI - INSERT MOLD EL
 AB - PROBLEM TO BE SOLVED: To provide an insert mold EL with improved adherent property between an EL sheet and a resin, without exfoliation after molding. SOLUTION: An EL sheet B is formed by successively laminating an cosmetic layer 7, a transparent electrode layer 2, a light emitting layer 4, a back surface electrode layer 5, and an insulation layer 6 on a transparent film 1. A cover for a mobile phone, as an insert mold EL, is molded by injecting molding resin 10. For the injection molding resin 10, the same resin as that used for the adjacent transparent film 1, or a polymer alloy of the resin used for the transparent film and a resin different from the above, or a resin having a melting point higher than that of the resin used for the transparent film, is used. The injection molding resin might be formed adjacent to the insulation layer 6 constructing a back surface of the EL sheet B, in this case, the same resin as that used for the insulation layer 6, or a polymer alloy, or a resin with high melting point, is used.

IN - NAOI YASUSHI
 PA - SEIKO PRECISION KK; NISSHA PRINTING
 EC - B29C45/14Q4
 IC - H05B33/02; B29C45/14; B32B7/02; H05B33/10; B29L9/00

2 WPI / DERWENT

TI - Electroluminescent insert molding article for mobile telephones, comprises molding resin which is same as resin in adjacent layer of molding resin, on surface(s) of electroluminescent sheet

PR - JP20010275440 20010911
 PN - JP2003086354 A 20030320 DW200359 H05B33/02 004pp
 PA - (NSHA) NIPPON SHASHIN INSATSU KK
 - (SEIK-N) SEIKO PRECISION KK
 IC - B29C45/14 ;B29L9/00 ;B32B7/02 ;H05B33/02 ;H05B33/10
 AB - JP2003086354 NOVELTY - The electroluminescent (EL) insert molding article comprises molding resin (10) injected and molded to surface(s) of EL sheet (B). The molding resin (10) is same as the resin in adjacent layer of molding resin of EL sheet.

- USE - For exterior components of mobile telephones, domestic electrical appliance and interior components of motor vehicles.
- ADVANTAGE - The adhesion between EL sheet and molding resin is good i.e. the EL sheet and molding resin do not separate after molding, in the electroluminescent insert molding article.
- DESCRIPTION OF DRAWING(S) - The figure shows the sectional drawing of the molded product and partially expanded sectional view of molded product.
- molding resin 10
- electroluminescent sheet B
- (Dwg.2/3)

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 AN - 2003-621107 [59]

2 PA1 / JPG

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 IN - NAOI YASUSHI
 PA - SEIKO PRECISION INC;NISSHA PRINTING CO LTD

- TI - INSERT MOLD EL
- AB - PROBLEM TO BE SOLVED: To provide an insert mold EL with improved adherent property between an EL sheet and a resin, without exfoliation after molding.
- SOLUTION: An EL sheet B is formed by successively laminating an cosmetic layer 7, a transparent electrode layer 2, a light emitting layer 4, a back surface electrode layer 5, and an insulation layer 6 on a transparent film 1. A cover for a mobile phone, as an insert mold EL, is molded by injecting molding resin 10. For the injection molding resin 10, the same resin as that used for the adjacent transparent film 1, or a polymer alloy of the resin used for the transparent film and a resin different from the above, or a resin having a melting point higher than that of the resin used for the transparent film, is used. The injection molding resin might be formed adjacent to the insulation layer 6 constructing a back surface of the EL sheet B, in this case, the same resin as that used for the insulation layer 6, or a polymer alloy, or a resin with high melting point, is used.
- SI - B29L9/00
- I - H05B33/02 ;B29C45/14 ;B32B7/02 ;H05B33/10

レンスルファイド (PPS) : 285℃である。したがって融点の高い材料として、PETまたはそのポリマーアロイに対してはPPSが、PBTまたはそのポリマーアロイに対してはPPSおよびPCが、PMMAまたはそのポリマーアロイに対しては前記の4つのいずれもが、また、PVCまたはそのポリマーアロイに対してはPA6、PCおよびPPSが、それぞれ適用できる。

【0020】また、成形樹脂をELシートの片面側に成形したものに限らず、ELシートの両面側に成形するようにしてもよい。すなわち、ELシートの表面の発光面側、すなわち、透明フィルム1に隣接する側に成形樹脂を成形するとともに、ELシートの背面の絶縁層6に隣接する側に成形樹脂を成形するようにしてもよい。

【0021】

【発明の効果】本発明は、成形樹脂の材料として、隣接する樹脂の材料と同一の材料、または同一の材料を含む

ポリマーアロイ、または融点の高い材料を用いているので、成形樹脂の射出成形時に、成形樹脂と隣接する樹脂とが熔融密着し、強固に接合し、成形後にELシートと成形樹脂との接合箇所から剥がれる等の不都合は生じない。

【図面の簡単な説明】

【図1】本発明の実施の一形態を示す断面模式図である。

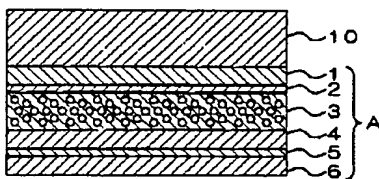
【図2】(a)は成形品の一例を示す断面図、(b)はその一部拡大断面図である。

【図3】(a)は成形品の他の例を示す断面図、(b)はその一部拡大断面図である。

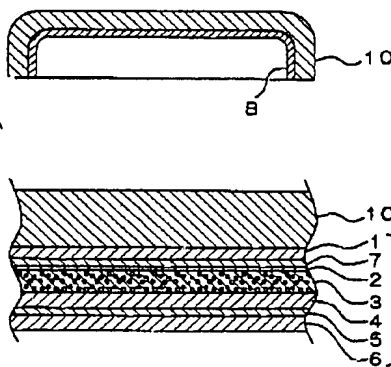
【符号の説明】

A, B ELシート
10, 20 成形樹脂

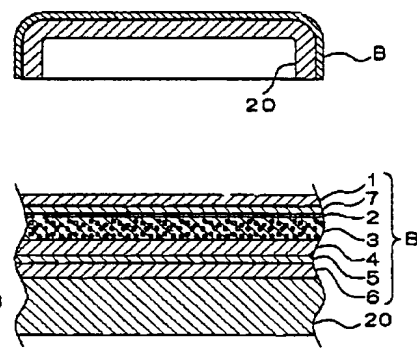
【図1】



【図2】



【図3】



フロントページの続き

Fターム(参考) 3K007 AB15 AB18 BA07 CA06 CB01
DA05 EA01 EA02 FA02
4F100 AK01B AK01C AK45 AK55
AK74 AL05B AL05C AS00A
BA02 BA03 BA07 BA13B
BA13C BA26B BA26C EH362
GB41 JA04B JA04C JL12
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AD08 AD20 AG03 AH41 JA07
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